

# Vaccine Supply Update & Programmatic Implications

Advisory Committee on Immunization Practices

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# Outline of Presentation

- I. Influenza Vaccine Distribution
- II. Implementation of New Vaccines
- III. Update on Varicella-Based Vaccine Supply



# I. Influenza Vaccine Distribution Historical Perspective

<u>Years</u>	<u>Doses Produced</u>	<u>Avg Distributed</u>	<u>Diff (range)</u>
1979-88	20.8 M	18.3 M	1.0-3.9M
1989-98	30.8 to 85.6M	26.1 to 75.3M	4.0-16.6M
1999-2006	Growth to >100M	Growth to >100M	



# Historical Perspective (continued)

1999 – 'On-time'; 0.5 M not distributed

2000 – Marked Delay; 7.5 M not distributed

2001 – Increased capacity, but 2<sup>nd</sup> year of delay; 10.0 M not distributed

2002 – Increased production to 95M, but 12.0 M not distributed

2003 – Less produced, distribution unchanged, late season demand, 3.8M not distributed

2004 – Marked 'Shortage'

2005 – Capacity Restored; 'Relative Delay'



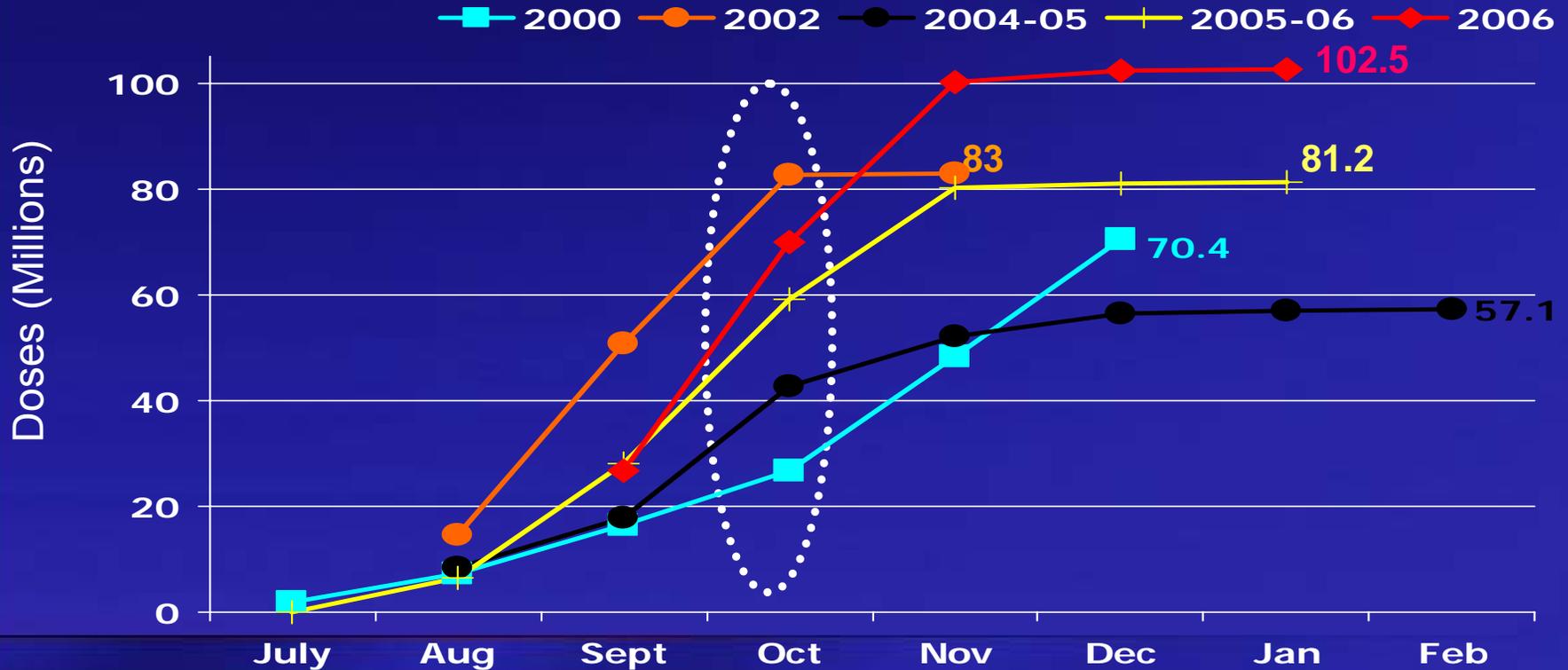
# 2006 – 2007

- Projected to produce >100 million doses, more if new licensure
- >102 million doses ultimately distributed, nearly 20 M doses more than ever
- Continued concerns over timing, equity, supply/demand mismatches



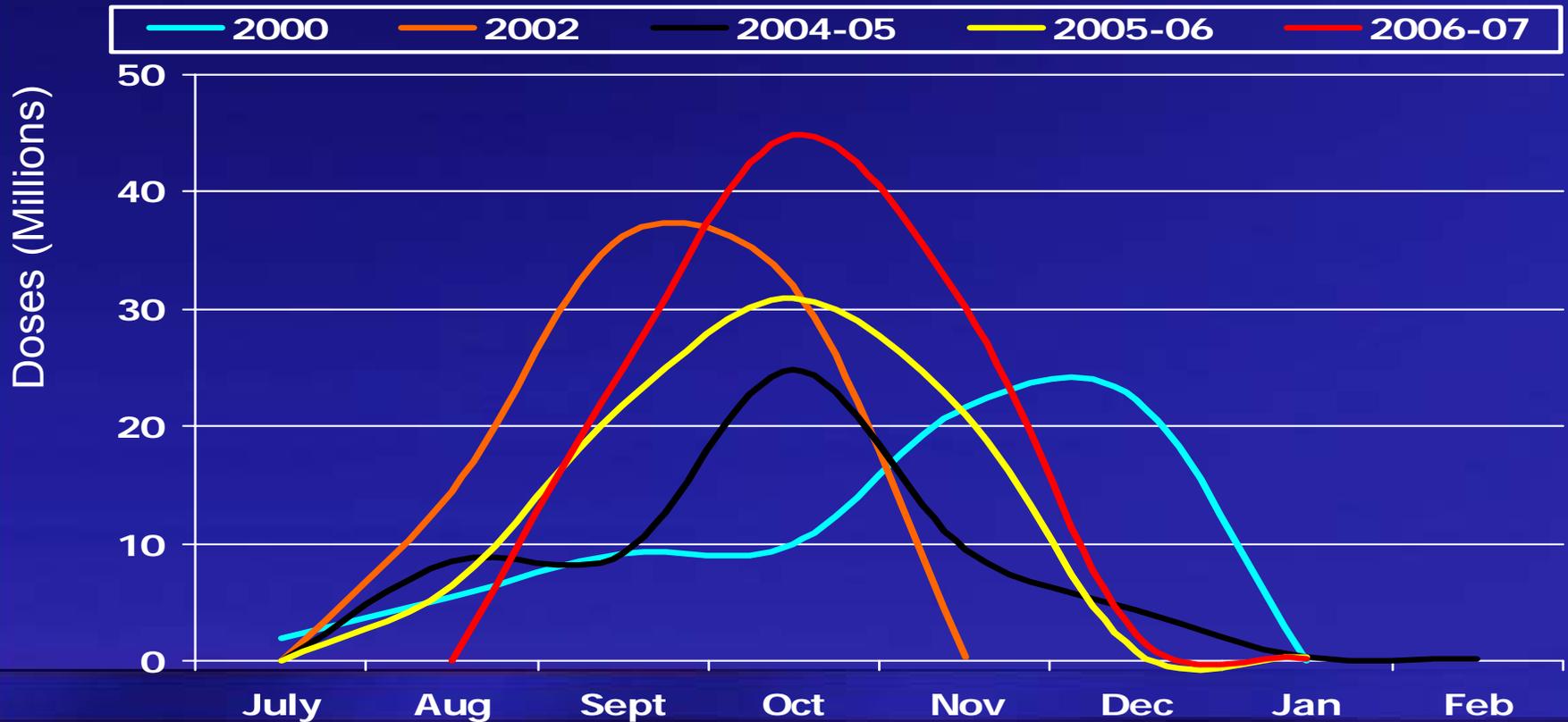
# Cumulative Monthly Influenza Vaccine Distribution

(01/12/2007)



# Monthly Influenza Vaccine Distribution

(01/12/2007)



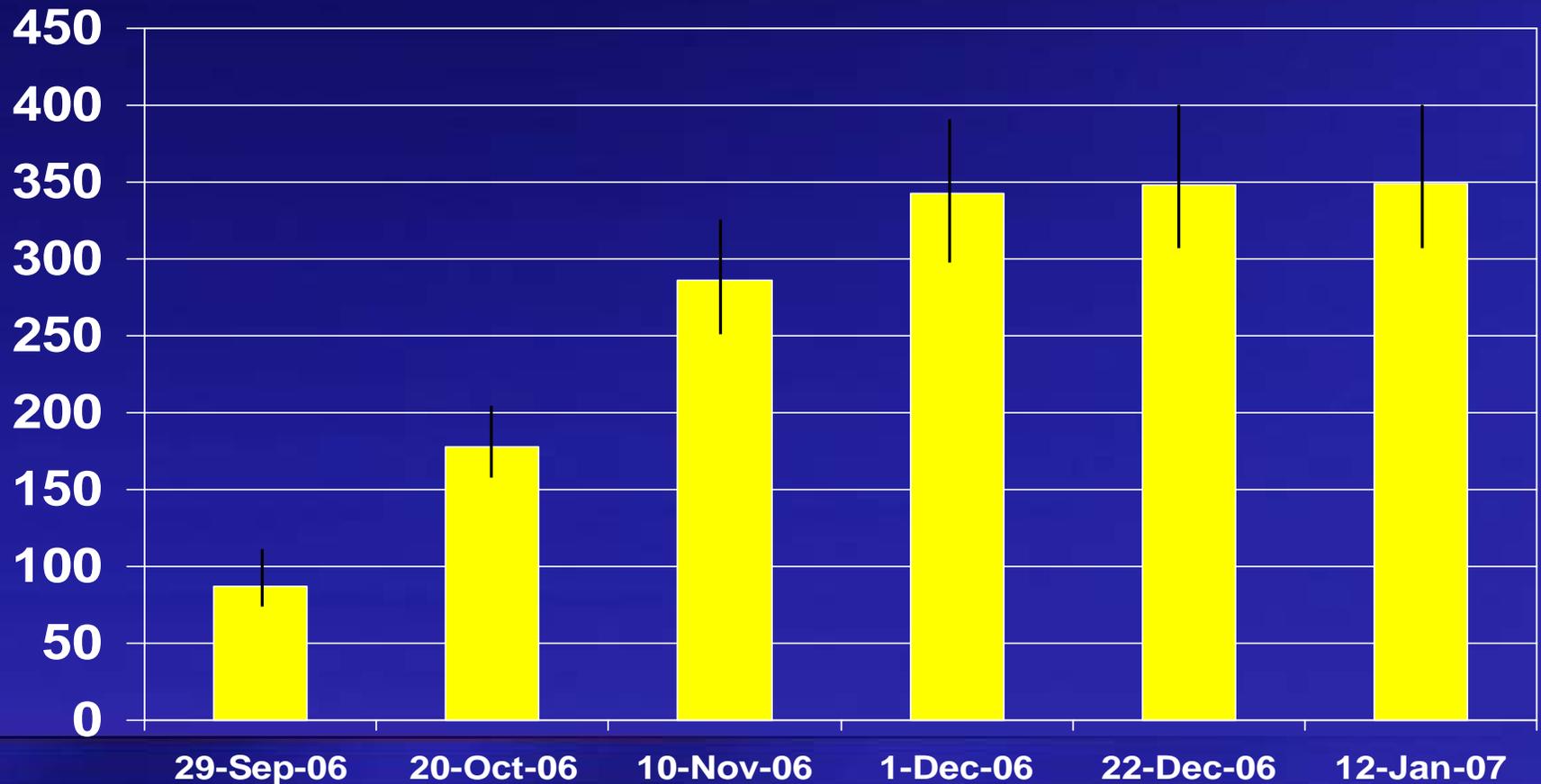
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# Distribution by HHS Region

Region I:	CT, ME, MA, NH, RI, VT
Region II:	NY, NJ, PR, VI
Region III:	DE, MD, PA, VA, WV, DC
Region IV:	AL, FL, GA, KY, MS, NC, SC, TN
Region V:	IL, IN, OH, MI, MN, WI
Region VI:	AR, LA, NM, OK, TX
Region VII:	IA, KS, MO, NE
Region VIII:	CO, MT, ND, SD, UT, WY
Region IX:	AZ, CA, HI, NV, Pacific Islands (6)
Region X:	AK, ID, OR, WA



# HHS Region Average Doses per Thousand Population

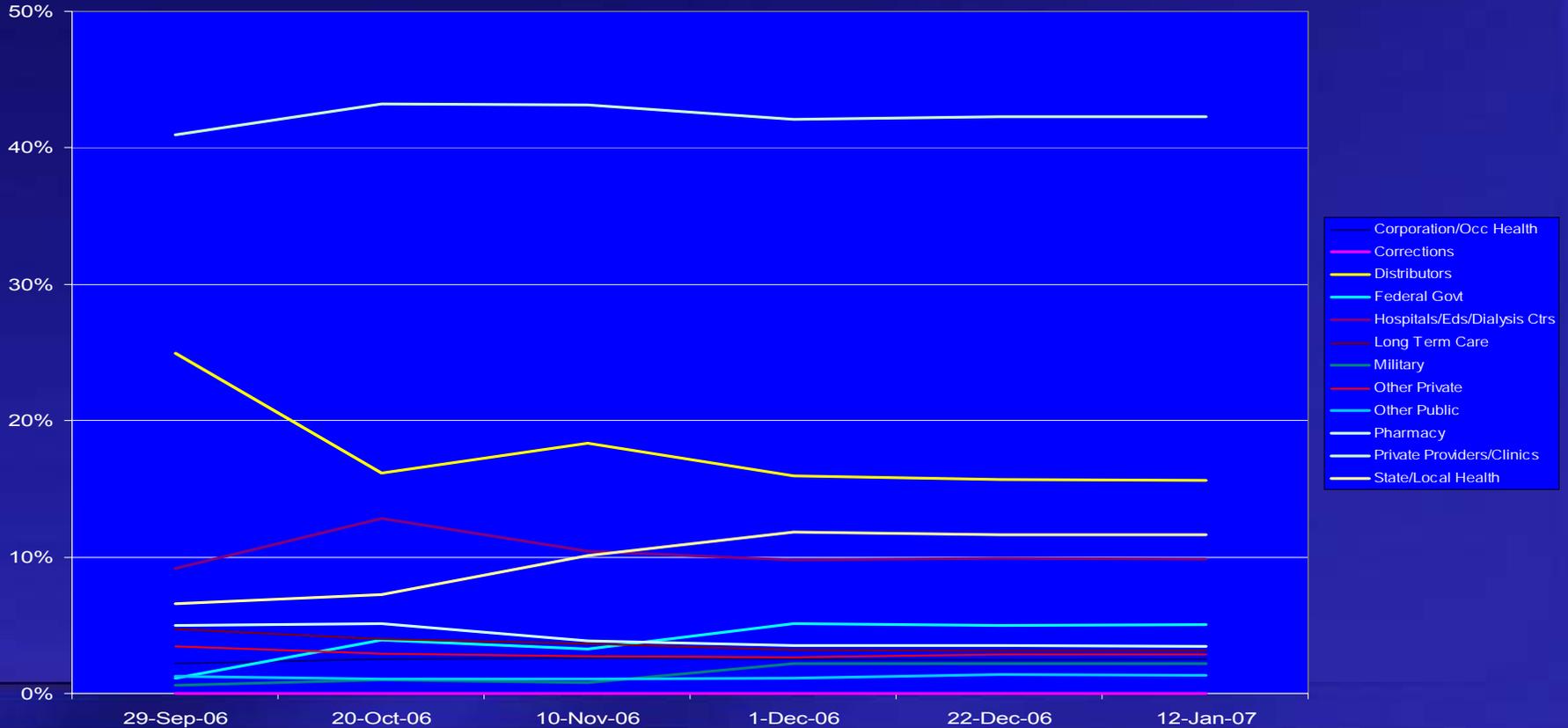


# Distribution by Provider Type

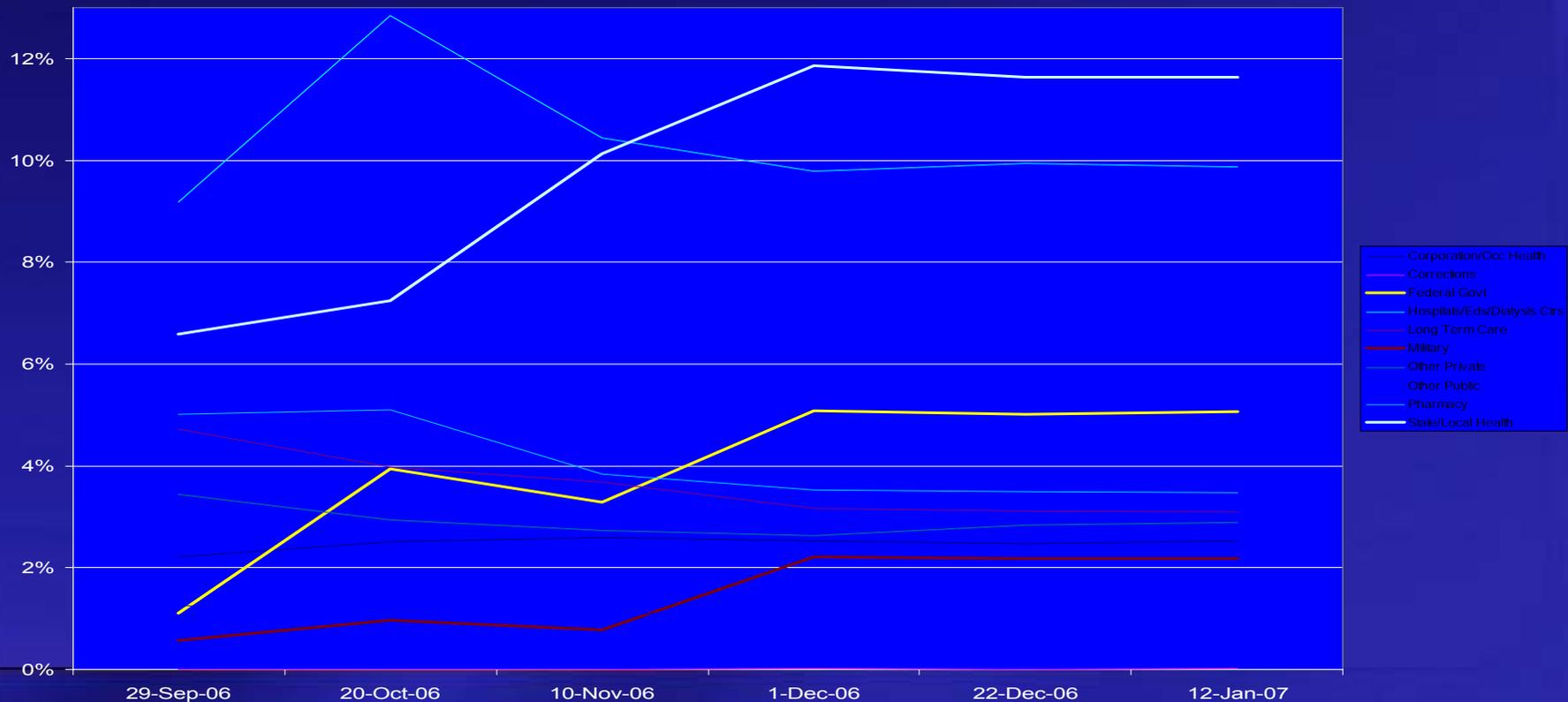
- Corporation/Occupational Health
- Corrections
- Distributors
- Federal Government
- Hospitals/EDs/Dialysis Centers
- Long Term Care
- Military
- Other Private
- Other Public
- Pharmacy
- Private Providers
- State/Local Health



# Distribution by Provider Type



# Distribution by Provider Type



# Influenza Vaccine Distribution Summary

- Overall Improvements in Distribution
- Complex, Dynamic System
- Multiple Variables
- Public Sector Distribution Improvements Needed



# II. Implementation of New Vaccines

- CDC Secures Vaccine Contracts
- Grantees Purchase Vaccine From CDC Contracts
- 3 Funding Sources
  - VFC Funds
  - 317 Grant Funds
  - State/Grantee Funds



# Grantee Structure

- 63 Grantees Purchase Vaccine Directly From CDC Contracts
- 60 of 63 Grantees are VFC Eligible
- 1 Grantee Cannot Utilize State Funds for CDC Contracts

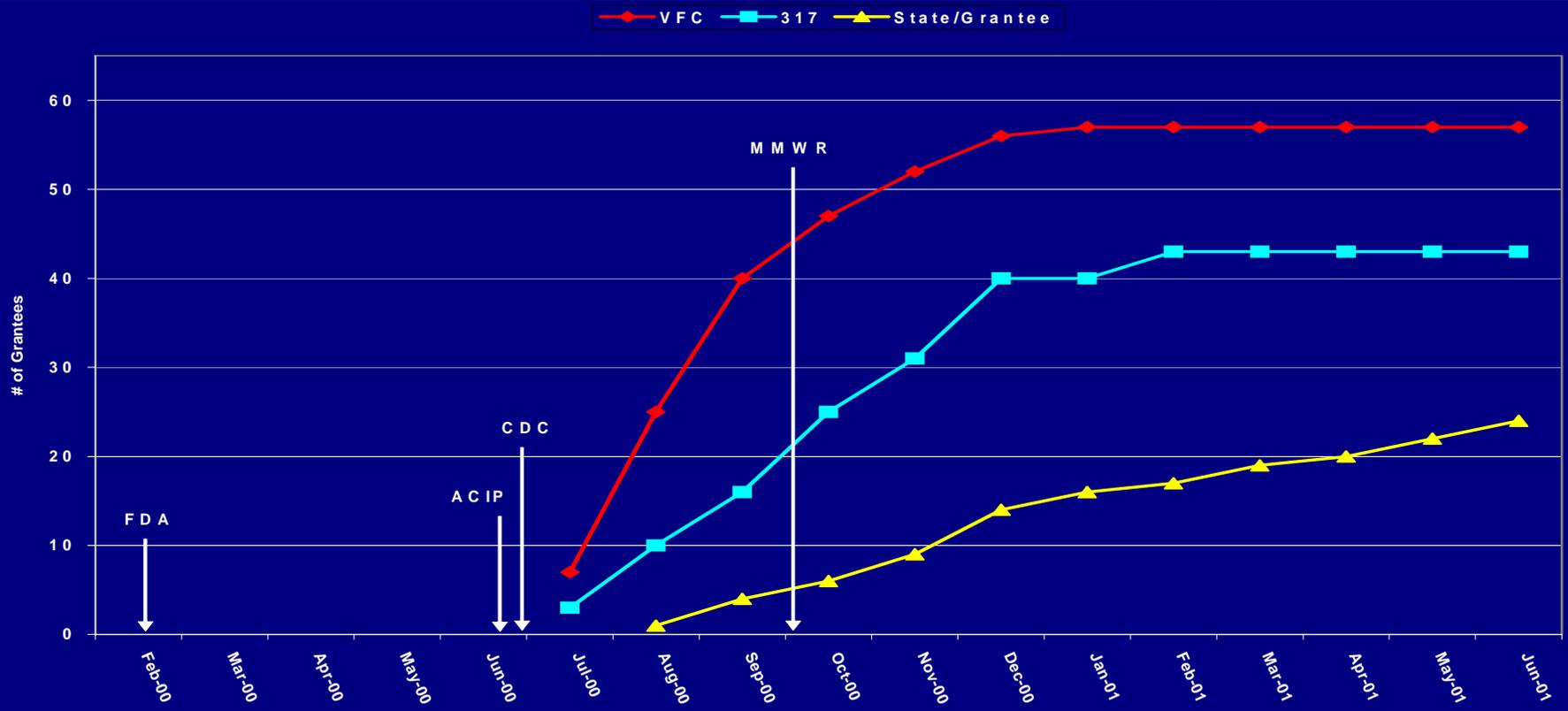


# New VFC Vaccines

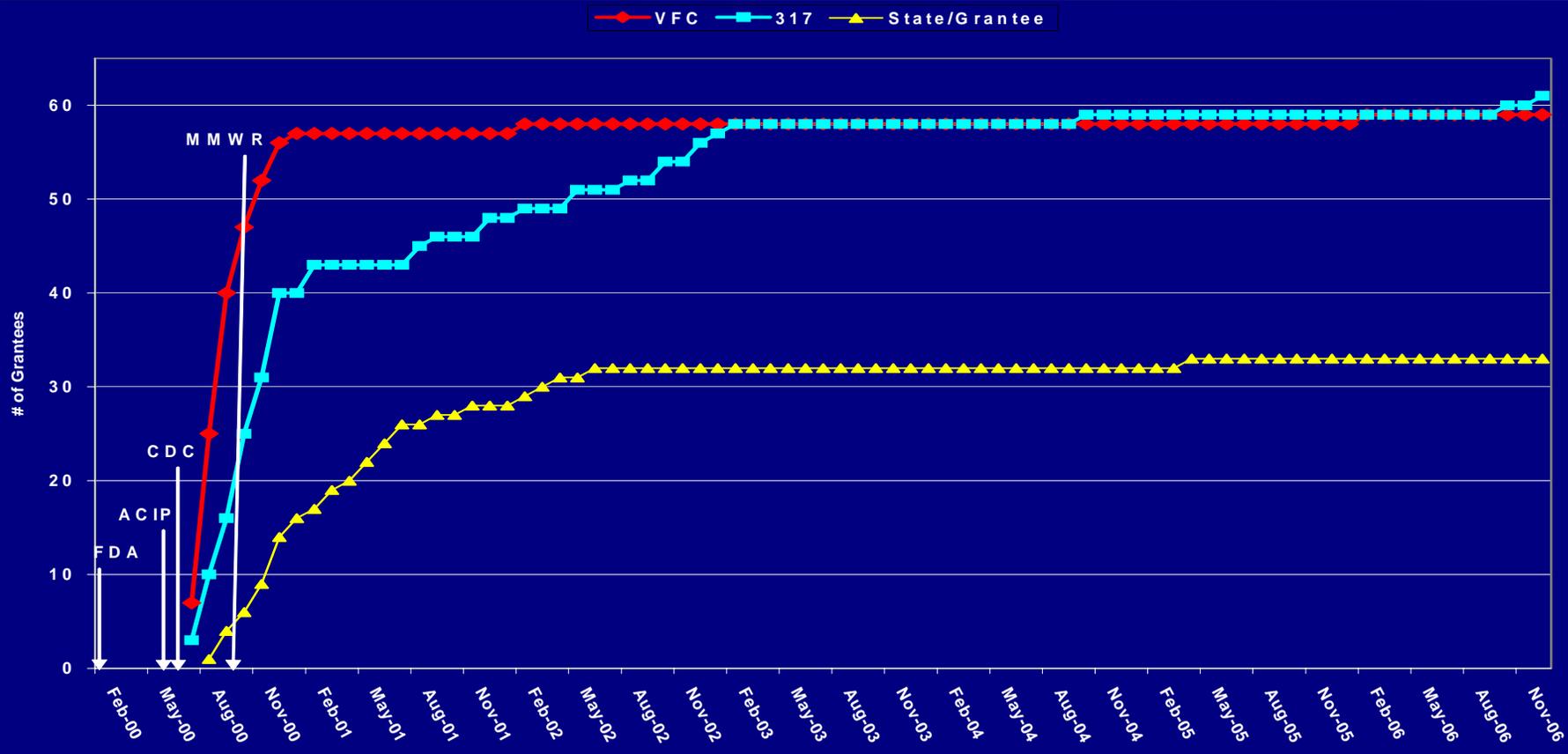
Vaccine	FDA Approval	ACIP Approval	CDC Contract	MMWR Publication
PCV	2/17/2000	6/21/2000	6/29/2000	10/6/2000
MCV4	1/14/2005	2/10/2005	4/1/2005	5/27/2005
Tdap	5/3/2005 & 6/10/2005	6/30/2005	8/30/2005	3/24/2006
Rota	2/3/2006	2/22/2006	4/1/2006	8/11/2006
HPV	6/8/2006	6/29/2006	10/30/2006	Pending



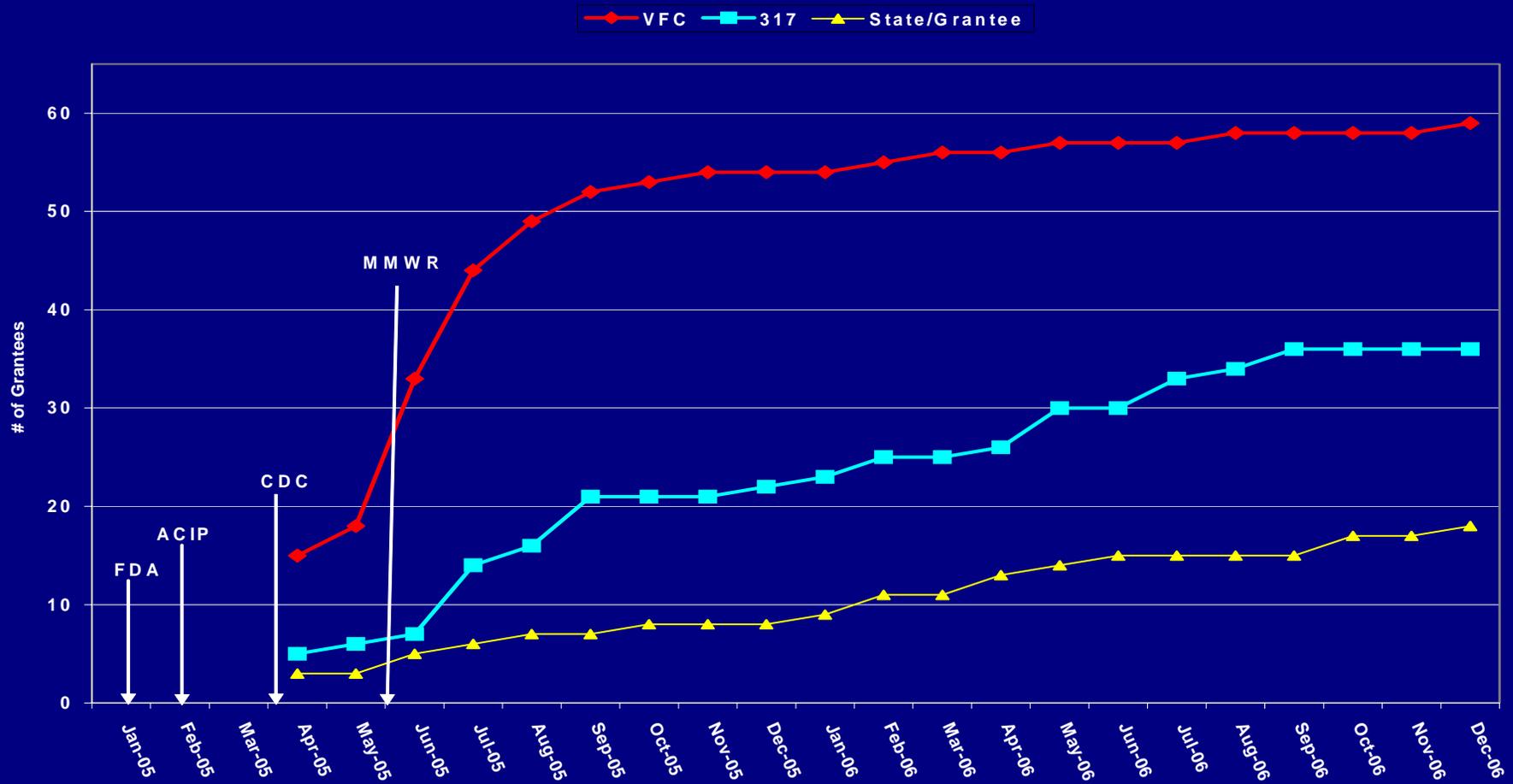
# Implementation of PCV 1st Year



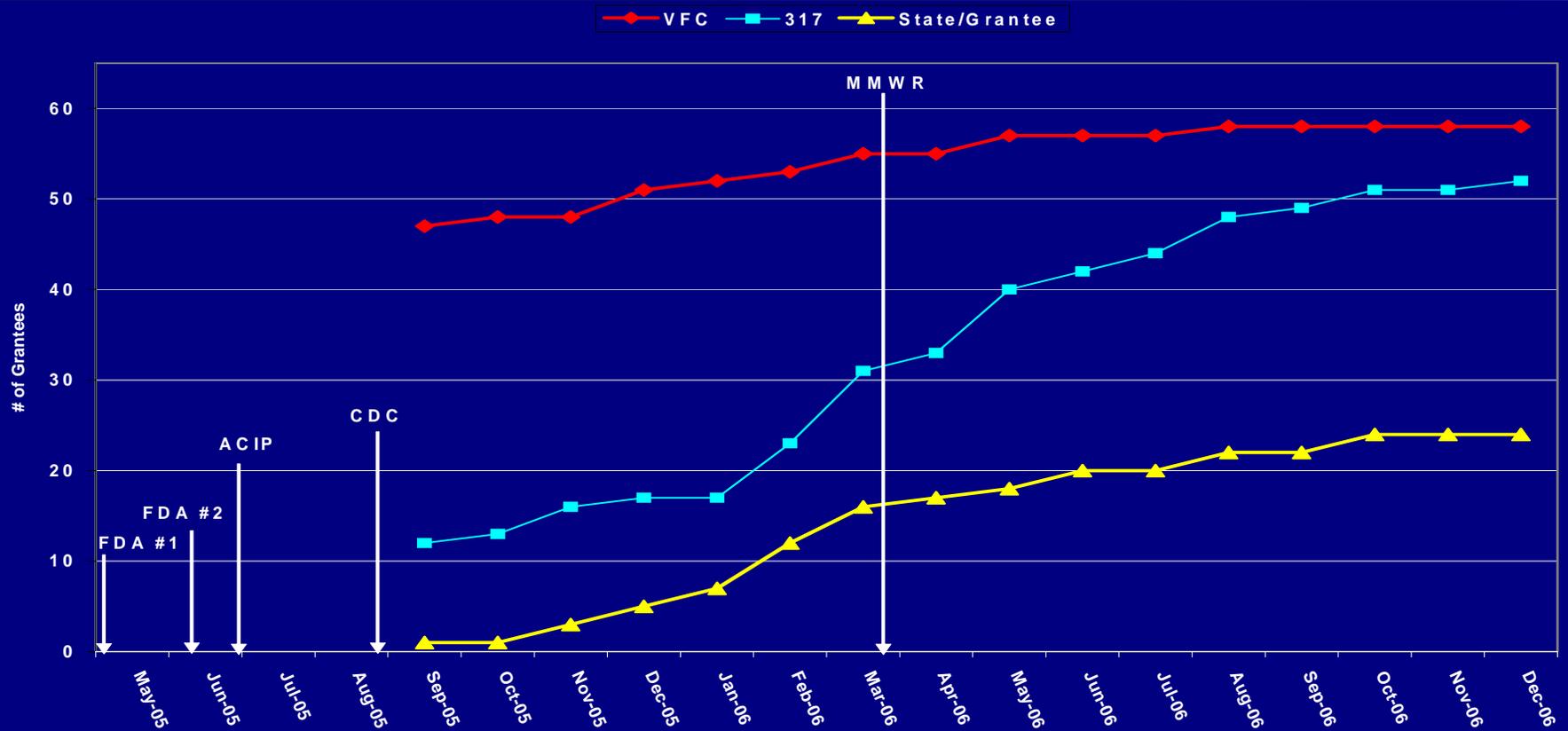
# Implementation of PCV 2000-Present



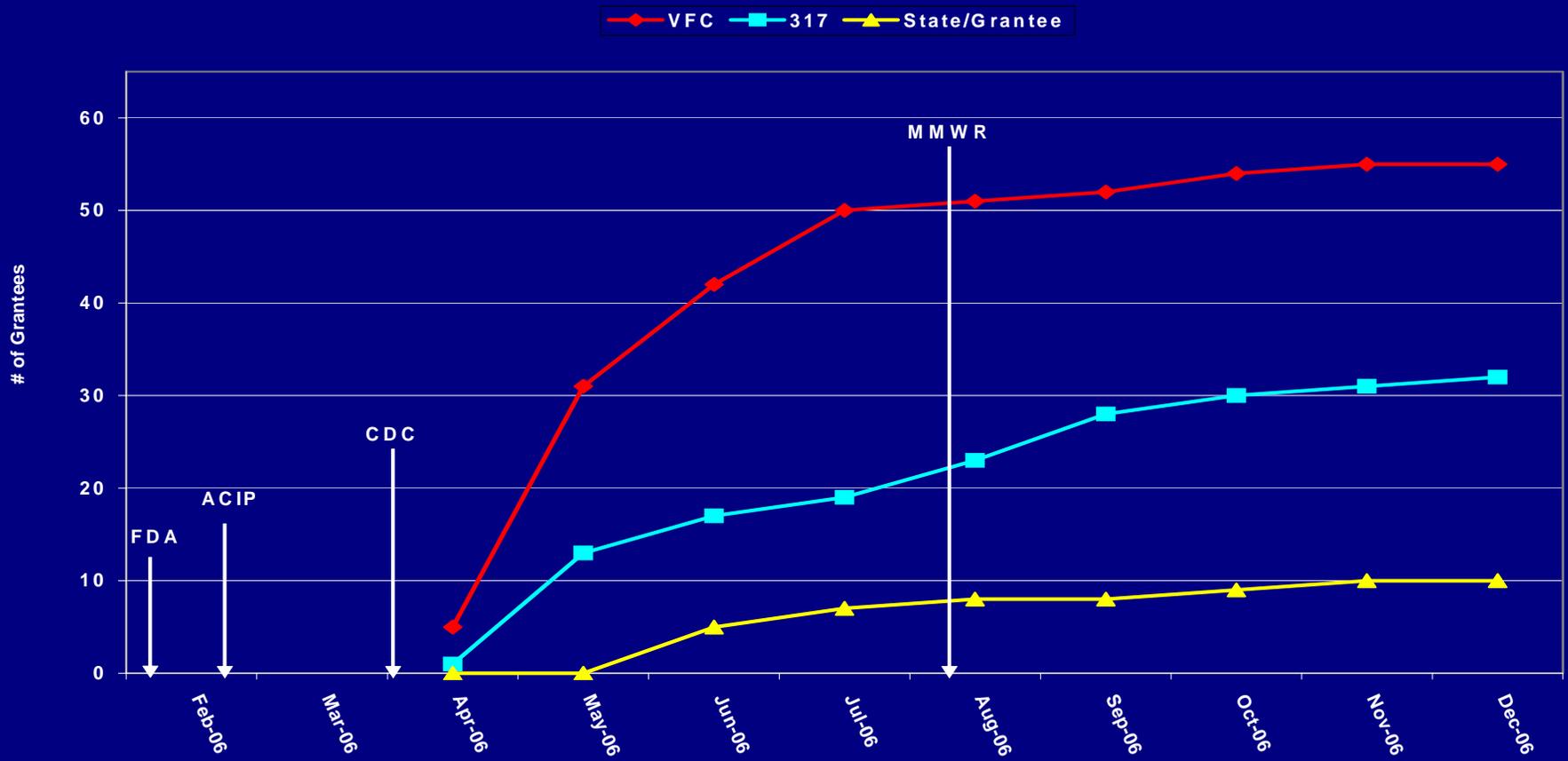
# Implementation of MCV4



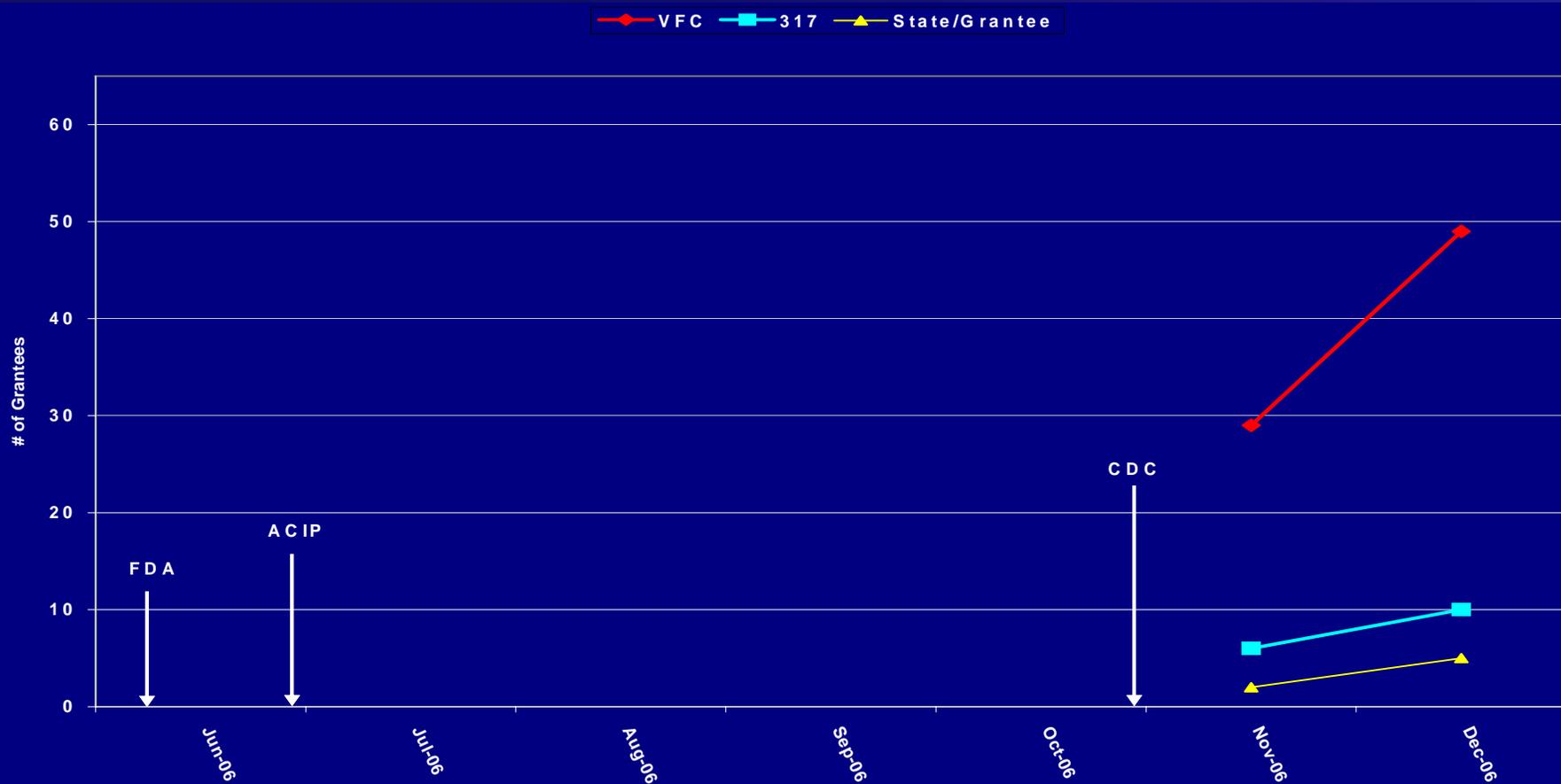
# Implementation of Tdap



# Implementation of Rota



# Implementation of HPV



# Implementation of New Vaccines Summary

- VFC Funding Leads Implementation of New Vaccines
- Extent and Timing of 317 and Grantee Funding Gap Varies
- Timelines for Implementation Relatively Efficient (although quantity of 317 & Grantee funding may not be adequate)



# III. Update on Varicella-Based Vaccine Supply

- **Varicella Zoster Virus (VZV) Bulk is used to Manufacture**
  - **Varicella Vaccine**
  - **MMR-V Vaccine**
  - **Zoster Vaccine**



# VZV Bulk Process

- Lower than Expected Yields
- Temporary Suspension of Production
- No Changes in Current Vaccine Policy Recommendations



# VZV Bulk Supply Next Steps

- MMWR Notice Scheduled Feb. 23, 2007
- Vaccine Supply will be monitored by Stakeholder Work Group and Manufacturer
- Varicella Vaccine + MMR may be used instead of MMR-V

